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10/840,191	05/06/2004	Nicola M. Funnell	1578.612 (11766-US-PAT)	7248
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/840,191	FUNNELL ET AL.	
Office Action Summary	Examiner	Art Unit	
	BOBBAK SAFAIPOUR	2618	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 25 \(\) This action is FINAL . 2b) \(\) This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 33-65 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 33-65 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination. 	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/25/2008 has been entered.

Claims 1-32 have been cancelled. **Claims 33-65** are still pending in the present application.

Response to Arguments

In the Office Action dated July 10, 2008, the Examiner disclosed that if the Applicants intends to differentiate between the initialization and dormant (idle) state of the Jang reference (US 2003/0211847 A1) and the one member corresponding to a cell which is not currently supporting the first connected mode state of the present application, then such differences should be made explicit in the claims.

The Applicants have amended the independent claims to distinguish better the invention of the present application. As a result, the previous rejection with regards to Jang et al. (US 2003/0211847 A1) has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Vialen et al. (US 6,917,807) in view of Czaja et al. (US 7,006,828 B1).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 33-65 rejected under 35 U.S.C. 103(a) as being unpatentable over Vialen et al. (US 6,917,807; hereinafter Vialen) in view of Czaja et al. (US 7,006,828 B1; hereinafter Czaja).

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Consider **claim 33**, Vialen discloses a method to select a cell in a mobile communications equipment (MCE), the MCE configurable for use in a cellular network (abstract), the method comprising:

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beginning state transition activity, the MCE currently in the connected mode state (figures 2-4; col. 3, lines 53 to col. 4, line 13; signaling between UTRAN and UE);

identifying a candidate cell set, the candidate cell set members corresponding to UMTS-based candidate cells (figure 2-4; col. 4, lines 13-65; selection of cell to be suggested), and selecting a candidate cell from the identified set of candidate cells (figures 2-4; col. 3, lines 53 to col. 4, lines 13; selection of cell).

Vialen fails to specifically disclose transitioning from a connected mode state to an idle mode state; at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state; and transitioning to an idle mode state.

In related art, Czaja discloses transitioning from a connected mode state to an idle mode state (col. 4, lines 18-27; switching from the CDMA channels of the serving base station to the CDMA channels of the target base station produces a momentary interruption in the continuity of the radio link between the mobile station and the base stations); at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state (col. 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communications with a different base station); and transitioning to an idle mode state (col. 3, lines 2-25; col. 4, lines 18-27).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of Vialen to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider **claim 42**, Vialen discloses a mobile communications equipment (MCE) configured for use in a cellular network (abstract), comprising: a processor and operating environment configured to run software processes, the software processes configured to determine a set of UMTS-based candidate cells (figure 2-4; col. 4, lines 13-65; selection of cell to be suggested), configured to select a candidate cell from the identified set of candidate cells (figures 2-4; col. 3, lines 53 to col. 4, lines 13; selection of cell).

Vialen fails to specifically disclose a processor and operating environment configured to run software processes, the software processes configured to enable the MCE to transition from a connected mode state to an idle mode state; at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state; and transitioning to an idle mode state.

In related art, Czaja discloses transitioning from a connected mode state to an idle mode state (col. 4, lines 18-27; switching from the CDMA channels of the serving base station to the CDMA channels of the target base station produces a momentary interruption in the continuity of the radio link between the mobile station and the base stations); at least one of the set of candidate cells is a cell which is not currently supporting the connected mode state (col. 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the

mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communications with a different base station); and transitioning to an idle mode state (col. 3, lines 2-25).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of Vialen to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider **claim 51**, Vialen discloses a method to select a cell in a mobile communications equipment (MCE) the MCE configurable for use in a cellular network (abstract), the method comprising:

beginning state transition activity, the MCE currently in the first connected mode state (figures 2-4; col. 3, lines 53 to col. 4, line 13; signaling between UTRAN and UE);

identifying a set of UMTS based candidate cells (figure 2-4; col. 4, lines 13-65; selection of cell to be suggested);

selecting a candidate cell from the identified set of candidate cells (figures 2-4; col. 3, lines 53 to col. 4, lines 13; selection of cell).

Vialen fails to specifically disclose when transitioning from a first connected mode state to a second connected mode state, and at least one if the candidate cells is a cell which is not currently supporting the first connected mode state transitioning to the second connected mode

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In related art, Czaja discloses disclose when transitioning from a first connected mode state to a second connected mode state (col. 3, lines 2-25; col. 4, lines 18-27), and at least one if the candidate cells is a cell which is not currently supporting the first connected mode state transitioning to the second connected mode state using the selected candidate cell (col. 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communications with a different base station), where the first and second connected mode states are, each, one of: Cell FACH, Cell PCH, and URA PCH (col. 7, lines 1-12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of Vialen to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

Consider claim 59, Vialen discloses a mobile communications equipment (MCE) configured for use in a cellular network (abstract), comprising: a processor and operating environment configured to run software processes, the software processes configured to determine set of UMTS based candidate cells (figure 2-4; col. 4, lines 13-65; selection of cell to be suggested), configured to select a candidate cell from the identified set of candidate cells (figures 2-4; col. 3, lines 53 to col. 4, lines 13; selection of cell).

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Vialen fails to specifically disclose a processor and operating environment configured to run software processes, the software processes configured to enable the MCE to transition from a first connected mode state to a second connected mode state, and further comprising at least one of the set of candidate cells is a cell which is not currently supporting the first connected mode state to use the selected candidate cell when transitioning to the second connected mode state where the first and second connected mode states are, each, one of: Cell_FACH, Cell_PCH, and URA PCH.

In related art, Czaja discloses a processor and operating environment configured to run software processes, the software processes configured to enable the MCE to transition from a first connected mode state to a second connected mode state (col. 3, lines 2-25; col. 4, lines 18-27), and further comprising at least one of the set of candidate cells is a cell which is not currently supporting the first connected mode state to use the selected candidate cell when transitioning to the second connected mode state (col. 3, lines 2-25; As the mobile station moves and its currently active base station signal weakens, the mobile station must access a new base station. Based upon the results of the searcher function, and the instructions received from the base station, the mobile station updates its sets, and communications with a different base station) where the first and second connected mode states are, each, one of: Cell_FACH, Cell_PCH, and URA_PCH (col. 7, lines 1-12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Czaja into the teachings of Vialen to monitor the channel conditions for all base station in an active set of a selected mobile station and determine the relative strengths of base stations based on the monitored channel conditions.

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Consider claims 34, 43, 52, and 60 and as applied to claims 33, 42, 51, and 59 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein said at least one of the candidate cells which is not currently supporting the connected mode state is a cell identified to the MCE by a network. (Vialen: figures 2-4; col. 3, lines 53 to col. 4)

Consider claims 35, 44, 53, and 61 and as applied to claims 33, 42, 51, and 59 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein said at least one of the candidate cells which is not currently supporting the connected mode state is a cell neighboring a cell supporting the connected mode state. (Vialen: figures 2-4; col. 3, lines 53 to col. 4)

Consider claims 36, 45, 54, and 62 and as applied to claims 33, 42, 51, and 59 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein storing information relating to at least one candidate cell which is not currently supporting the connected mode state arising from past data gathering by the MCE. (Czaja: col 3, lines 2-25 and col. 4, lines 18-27)

Consider claims 37, 46, and 55 and as applied to claims 36, 45, and 54 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein said stored information stored comprises power measurement data. (Czaja: col 3, lines 2-25 and col. 4, lines

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18-27)

Consider claims 38, 47, 56, and 63 and as applied to claims 37, 46, 55, and 62 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein storing information comprising power measurements with respect to a plurality of candidate cells of the identified candidate cell set, the information gathered previous to the beginning state transition activity; and selecting the selected candidate cell based at least in part on said power measurements. (Czaja: col 3, lines 2-25 and col. 4, lines 18-27)

Consider claims 39, 48, and 57 and as applied to claims 33, 42, and 51 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein the connected mode state comprises one of Cell_DCH, Cell_FACH, Cell_PCH, and URA_PCH. (Vialen: col. 2, lines 18-26)

Consider claims 40, 49, 58, and 64 and as applied to claim 33, 42, 51, and 59 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein the identified candidate cell set comprises active cell(s) used to support the connected mode state. (Vialen: figures 2-4; col. 3, lines 53 to col. 4)

Consider claims 41, 50, and 65 and as applied to claims 33, 42, and 59 above, respectively, Vialen, as modified by Czaja, discloses the claimed invention wherein the

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identified candidate cell set comprises the serving cell used to support the connected mode state.

(Vialen: figures 2-4; col. 3, lines 53 to col. 4)

Conclusion

Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

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Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

/Bobbak Safaipour/ Examiner, Art Unit 2618

November 21, 2008

/Matthew D. Anderson/

Supervisory Patent Examiner, Art Unit 2618